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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/673,210	09/30/2003	Kang Soo Seo	1740-000059US	9596
	7590 03/04/200 CKEY & PIERCE, P.L	EXAMINER		
P.O. BOX 8910			ZHAO, DAQUAN	
RESTON, VA 20195			ART UNIT	PAPER NUMBER
			2621	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/673,210	SEO ET AL.			
Office Action Summary	Examiner	Art Unit			
	DAQUAN ZHAO	2621			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 10 Fe This action is FINAL. 2b) ☐ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1,8-11 and 24-43 is/are pending in the 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,8-11 and 24-43 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	vn from consideration.				
applicant may not request that any objection to the content of the oath or declaration is objected to by the Examiner 10). The drawing(s) filed on is/are: a). access Applicant may not request that any objection to the content of the oath or declaration is objected to by the Examiner 11). The oath or declaration is objected to by the Examiner 11.	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 2/10/2009.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/10/2009 has been entered.

Response to Arguments

2. Applicant's arguments with respect to claims 1, 8-11, and 24-43 have been considered but are most in view of the new ground(s) of rejection.

Specification

3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The specification of the instant application fails to provide proper antecedent basis for "computer readable medium" recited in claim 1.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1, 24, 29, 34 and 39 are rejected under 35 U.S.C. 101 because claims are directed to non-statutory subject matter.

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Claim 1 is directed to a computer readable medium. The examiner is treating the claimed "computer readable medium" as a signal, which is a non-statutory subject matter.

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Claims 24, 29, 34 and 39 incorporated the same deficiency as set forth in claim 1 above.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1, 8-11 and 24-43 rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (US 6,754,435 B2), hereinafter referenced as Kim, and further in view of Digital Video Broadcasting (DVB) Subtitling System (a copy of this document is attached, or Google.com: keywords: digital video broadcasting subtitling system), hereinafter referenced as DVB Standard.

For claim 1, Kim teaches a computer readable medium storing a data structure for managing reproduction of graphic data by a reproducing apparatus (e.g. abstract, figures 13, and 14), comprising: a data area storing one or more graphic segments containing a graphic image for overlay on main video data (e.g. column 7, line 61-column 8, lines 8, caption or subtitle data is overlay on the video data on the display), the one or more graphic segments multiplexed into a main video stream including the

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main video data (e.g. figure 4, column 3, lines 52-67, the sub-picture data or caption data is multiplexed with the video data).

However, Kim fails to teach a plurality of transport packets representing one or more graphic segments containing a graphic image; the transport packets in the one or more graphic segments have a same packet identifier (PID) (e.g. page 8, "transport packet stream" and page 10, a subtitle stream carries a single transport packet stream, wherein the transport packet stream contains a subset of transport packets and shares a common packet identifier, PID; the subtitle stream corresponds to the claimed "one or more graphic segments"), at least one transport packet in the one or more graphic segments includes position information defining a position for the reproducing apparatus to display the graphic images (e.g. page 8: page composition, and page 17, syntax for page composition segment which contains a "region horizontal address" and "region vertical address", and pages 39 to 43 shows how all the subtitle are overlaying on the video data on the screen), and at least one transport packet in the one or more graphic segments includes a time stamp of the graphic images (e.g. page 35, A.3.1 presentation time stamps).

It would have been obvious to one ordinary skill in the art at the time of the invention was made to incorporate the teaching of the DVB standard into teaching of Kim to record or reproduce the subtitle stream in the DVD of Kim according to the DVB standard to provide efficient use of the display memory (DVB standard, page 9).

Claims 8 and 10 are rejected for the same reasons as discussed in claim 1 above.

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Claim 9 is rejected for the same reasons as discussed in claim 1 above, wherein Kim teaches an optical reproducing device configured to reproduce data recorded on the recording medium; a controller configured to control the optical reproducing device to reproduce from the recording medium (e.g. figure 9, micro-computer 11).

Claim 11 is rejected for the same reasons as discussed in claim 1 above, wherein Kim teaches in column 1, lines 27-35, the video data is recorded on the DVD. Therefore, there must be an optical recording device, an encoder and a controller to record the video data on the DVD.

For claims 24-28, DVB standard teaches at least one transport packet in the one or more graphic segments includes information on presentation time to display the graphic image, and duration to display the graphic images (e.g. page 35, A.3.1. Presentation Time Stamps (PTS), The PTS controls when the subtitle data is display, page 41 teaches the subtitle data "toward the twenty-first century this" and "month when it purchased a robot" are display at different time. Therefore the PTS has to control the duration of the display of the subtitle data since, for example the subtitle data "toward the twenty-first century this" can't stay on the screen forever).

For claims 29-33, Kim teaches a playlist including navigation information for playback control of the main video stream (e.g. figure 6 shows the Navigation data, column 4, lines 21-28, the program chain information is consider to be the playlist information).

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For claims 34-38, Kim teaches a graphic mark indexing the graphic image (e.g. column 5, lines 45-61, the "sub-picture search table" index the sub-picture data location).

For claims 39-43, Kim teaches information specifying display start time and end times of the graphic image (e.g. column 8, lines 1-8, the caption data are lined to the moving picture data falling into a predetermined period of time, therefore, the subtitle has to have a start time and end time according the reproduction time of the video data. The examiner recognizes the reproduction time is controlled by the Presentation Time Stamp in the DVB Standard or in the conventional DVD standard) and the DVB Standard teaches the display position and window size of the graphic image on the main video data (e.g. page 8: page composition, and page 17, syntax for page composition segment which contains a "region horizontal address" and "region vertical address", and pages 39 to 43 shows how all the subtitle are overlaying on the video data on the screen, The size and position of the display windows A, B and C of pages 39-43 has to be defined by the "page composition").

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daquan Zhao whose telephone number is (571) 270-1119. The examiner can normally be reached on M-Fri. 7:30 -5, alt Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tran Thai Q, can be reached on (571)272-7382. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Daquan Zhao

/JAMIE JO VENT ATALA/

Examiner, Art Unit 2621